

Patent

33. (twice amended) A method of coating a hot melt adhesive onto a substrate, said method comprising the steps of:
- a) providing a melted hot melt adhesive composition;
 - b) advancing a substrate along a path;
 - c) dispensing a continuous film of said hot melt adhesive from a coating device at a coating temperature wherein the thermoplastic composition has a complex viscosity ranging from about 100 poise to about 1,000 poise at about 1 radian/second;
 - d) suspending said film between said coating device and said substrate; and
 - e) contacting said film with said advancing substrate wherein said film has an area weight of less than 20 g/m².
44. (twice amended) A method of coating a hot melt adhesive onto a substrate, said method comprising the steps of:
- a) providing a molten hot melt adhesive composition;
 - b) advancing a substrate along a path;
 - c) dispensing a continuous film of said hot melt adhesive composition from a coating device at a coating temperature wherein the thermoplastic composition has a complex viscosity ranging from about 100 poise to about 1,000 poise at about 1 radian/second;
 - d) suspending said film between said coating device and said substrate; and
 - e) contacting said film with said advancing substrate wherein said film consists essentially of a single layer of said hot melt adhesive having a film thickness of 75 microns.
46. (amended) A method of coating a thermoplastic composition onto a substrate, said method comprising the steps of:
- a) providing a molten thermoplastic composition;
 - f) advancing a substrate along a path;

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- g) dispensing a continuous film of said thermoplastic composition from a coating device at a coating temperature wherein [the complex viscosity of] the thermoplastic composition [is] has a complex viscosity of less than about 500 poise at about 1000 radians/seconds and a complex viscosity ranging[es] from about 100 poise to about 1,000 poise at about 1 radian/second;
- h) suspending said film between said coating device and said substrate; and
- i) contacting said film with said advancing substrate wherein the coat weight of the film is less than 20 g/m².
47. (new) The method of claim 1 wherein the thermoplastic composition is a polyolefin selected from the group consisting of polyethylene, polypropylene, amorphous polyolefins, and metallocene polyolefins.
48. (new) The method of claim 33 wherein the hot melt adhesive composition comprises up to 40% of a thermoplastic polymer, up to 40% of a plasticizer and up to 70% of a tackifying resin.
49. (new) The method of claim 49 wherein the thermoplastic polymer is selected from the group consisting of atactic polyalphaolefins, synthetic rubbers, and ethylenic copolymers.
50. (new) The method of claim 49 wherein ^{the thermoplastic polymer is} the synthetic rubber ^{which} is a block copolymer.
51. (new) The method of claim 50 wherein the ethylenic copolymer is selected from the group consisting of ethylene-vinyl acetate, ethylene-methylacrylate, and ethylene n-butyl acrylate.
52. (new) The method of claim 1 wherein the thermoplastic composition is breathable.